



ELECTRONIC TUBE REFERENCE

ACTH1

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS
CONSTRUCTION
HEPTODE-TRIODE

Triode-heptode frequency changer for AC-operated all-wave superheterodyne receivers. The triode serves as local oscillator while the heptode performs mixing with minimized interaction between oscillator and signal circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Heptode	
PLATE RESISTANCE	1600000 Ω
TRANSCONDUCTANCE	0.003 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
Heptode frequency-changer section.	

SECTION2 Triode	
TRANSCONDUCTANCE	0.0053 S
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM CATHODE CURRENT	15 mA
<i>Oscillator triode section.</i>	

Triode-heptode frequency changer designed for A.C. mains all-wave receivers with low oscillator-to-input interaction.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Mazda

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1960 MAZDA

Section 1 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion conductance	750 $\mu\text{A/V}$	—
Conversion conductance	870 $\mu\text{A/V}$	Alternate

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1.6 M Ω	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Working grid-earth capacitance hot	12.2 pF	—

1960 MAZDA

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode voltage	80 V	—
Typical anode current	4 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-earth capacitance	4.9 pF	—
Grid-earth capacitance	10.25 pF	—
Anode-grid capacitance	2.25 pF	—